

**WEST VERMONT SITE  
SPEEDWAY, MARION COUNTY, INDIANA  
DATA VALIDATION REPORT**

**Date:** December 9, 2013

**Laboratory:** Pace Analytical Services, Inc. (Pace), Indianapolis, Indiana

**Laboratory Project #:** 5090262

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

**Weston Analytical TDD/Work Order #:** S05-0001-1306-013/20405.016.001.2190.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 14 groundwater samples plus 1 trip blank collected for the West Vermont Site that were analyzed for the following parameters and methods.

- Volatile Organic Compounds (VOC) by SW-846 Method 8260
- Dissolved Gases (Methane, Ethane, and Ethene) by RSK-175

A level II data package was requested from Pace. The data validation was conducted in general accordance with the U.S. Environmental Protection Agency "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**VOCs BY EPA SW-846 METHOD 8260**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

| <b>Samples</b>             | <b>Lab ID</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Date Analyzed</b> |
|----------------------------|---------------|---------------|-----------------------|----------------------|
| WVS-MWWES-TripBlank-111913 | 5090262001    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-DUP1-112013-GW   | 5090262002    | Water         | 11/20/2013            | 11/30/2013           |
| WVS-MWWES-04A-111913-GW    | 5090262003    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-04B-111913-GW    | 5090262004    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-03A-111913-GW    | 5090262005    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-03B-111913-GW    | 5090262006    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-05A-111913-GW    | 5090262007    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-05B-111913-GW    | 5090262008    | Water         | 11/19/2013            | 11/30/2013           |
| WVS-MWWES-05C-112013-GW    | 5090262009    | Water         | 11/20/2013            | 11/30/2013           |
| WVS-MWWES-02A-112013-GW    | 5090262010    | Water         | 11/20/2013            | 11/30/2013           |
| WVS-MWWES-02C-112013-GW    | 5090262011    | Water         | 11/20/2013            | 11/29/2013           |
| WVS-MWWES-01A-112013-GW    | 5090262012    | Water         | 11/20/2013            | 11/29/2013           |
| WVS-MWWES-01C-112013-GW    | 5090262013    | Water         | 11/20/2013            | 11/29/2013           |

| Samples                 | Lab ID     | Matrix | Date Collected | Date Analyzed |
|-------------------------|------------|--------|----------------|---------------|
| WVS-MWWES-02B-112013-GW | 5090262014 | Water  | 11/20/2013     | 11/29/2013    |
| WVS-MWWES-01B-112013-GW | 5090262016 | Water  | 11/20/2013     | 11/29/2013    |

2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. **Blanks**

Method blanks and a trip blank were analyzed with the VOC analyses and were free of target compound contamination above the reporting limit.

4. **Surrogate Recovery Results**

The surrogate recoveries were within the laboratory established quality control (QC) limits.

5. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within laboratory QC limits except for as follows. For a few compounds, the recoveries were above the QC limit; however, these compounds were not detected in the samples and no qualifications were required.

6. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

A site-specific MS and MSD were analyzed. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows. One VOC was detected high; however, this compound was not detected in the samples and no qualifications were warranted.

7. **Field Duplicate Results**

Sample WVS-MWWES-DUP1-112013 is a field duplicate of sample WVS-MWWES-01C-112013. Only vinyl chloride was detected in the two samples. The RPD was calculated to be 2 percent which is acceptable.

8. **Overall Assessment**

The VOC data are acceptable for use based on the information received.

## **METHANE, ETHANE, AND ETHENE BY RSK-175**

### **1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

| <b>Samples</b>           | <b>Lab ID</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Date Analyzed</b> |
|--------------------------|---------------|---------------|-----------------------|----------------------|
| WVS-MWWES-DUP1-112013-GW | 5090262002    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-04A-111913-GW  | 5090262003    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-04B-111913-GW  | 5090262004    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-03A-111913-GW  | 5090262005    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-03B-111913-GW  | 5090262006    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-05A-111913-GW  | 5090262007    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-05B-111913-GW  | 5090262008    | Water         | 11/19/2013            | 11/22/2013           |
| WVS-MWWES-05C-112013-GW  | 5090262009    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-02A-112013-GW  | 5090262010    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-02C-112013-GW  | 5090262011    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-01A-112013-GW  | 5090262012    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-01C-112013-GW  | 5090262013    | Water         | 11/20/2013            | 11/22/2013           |
| WVS-MWWES-02B-112013-GW  | 5090262015    | Water         | 11/20/2013            | 11/23/2013           |
| WVS-MWWES-01B-112013-GW  | 5090262017    | Water         | 11/20/2013            | 11/23/2013           |

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection.

### **3. Blanks**

Method blanks were analyzed with the dissolved gas analyses and were free of target compound contamination above the reporting limit.

### **4. LCS Results**

The LCS recoveries were within laboratory QC limits.

### **5. Field Duplicate Results**

Sample WVS-MWWES-DUP1-112013 is a field duplicate of sample WVS-MWWES-01C-112013. Only methane was detected in the two samples. The RPD was calculated to be 58

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percent which is elevated. There appears to be some heterogeneity associated with methane in these samples.

**6. Overall Assessment**

The dissolved gas data are acceptable for use based on the information received.

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**ATTACHMENT**

**PACE ANALYTICAL SERVICES, INC.  
RESULTS SUMMARY**